

Get Outside!... Field opportunities

Watershed Watch—Stream Monitoring

Stream monitoring is an excellent way to understand real life ecosystems and collect real scientific data. Every May through September, Lake County classes and residents take to the streams with kick seines in hand. With the help of Lake SWCD staff, they collect and identify macro-invertebrates and use their findings to determine water quality. Since 1994 this program has collected data for Ohio DNR's Scenic Rivers program.

Watershed Clean-ups

An important part of keeping our streams clean is removal of trash and litter from stream banks and roadsides. If your class or group is interested in this type of action project we would be happy to help you.

Easement Aid

Is your class or group looking for a community service project and want to help out Lake SWCD staff? If so we may have just the project. Lake SWCD manages an easement in a housing development in Concord, different times of the year require different jobs. Examples of projects on this property include, vernal pool monitoring, invasive species removal, plant and animal surveys, and general trash clean up.

For more information on any of these field opportunities contact Natalie.

As always, these programs are *FREE* to all Lake County schools, sadly we are unable to provide transportation.



Equipment for loan

Lake SWCD has many resources available to help supplement your curriculum. Here are some of our items available for loan:

- Great Lakes Timeline Trunk
- Forest Fire Prevention Trunk
- Maps and Mapping Kit
- Streamulator
- Groundwater Model
- Many Videos and DVDs

CALLING ALL STREAM MONITORS!

Lake SWCD needs your class, group or community organization for **Watershed Watch**. We welcome all groups aged 10 and up to help us research the quality of the water in our streams and rivers.

**For more information or to sign up please
contact Natalie at
ngertz-young@lakecountyohio.gov**



**Lake County Soil & Water
Conservation District**

125 East Erie Street
Painesville, Ohio 44077

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Fax: 440.350.2601

soil@lakecountyohio.gov

www.lakecountyohio.gov/swcd

Lake County SWCD will provide leadership and technical expertise to guide the protection and conservation of the unique soil and water resources of the county

All services are provided without regard to race, religion, gender, age, physical or mental handicap, national origin, or politics.



**Lake County Soil & Water
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Conservation Education Program Offerings



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Conservation in the Classroom

Lake County Soil and Water Conservation District offers many conservation education programs *FREE* to any school, club, or organization in Lake County. We offer hands on, interactive programs from Pre-kindergarten through 12th grade.

Although specific programs are listed, Lake SWCD can tailor your presentation to a particular topic or curriculum. A full list of our programs can be found at www.lakecountyohio/swcd. Programs are designed to meet the Ohio Academic Science Content Standards and correlations can be viewed on our website.

To see how we can accommodate your school or organization, please contact Natalie Gertz-Young, Education/Information Coordinator, at 440-350-2730 or ngertz-young@lakecountyohio.gov.

Benthic Bugs and Bioassessment

In this program students simulate taking a stream sample, identify their 'bugs' and use their findings to determine the water quality of the 'stream' at their location. A great introduction to or alternative for stream monitoring. Requires: basic classroom setup.

Recommended grade levels: 5th and 7th grades, Biology and Environmental Science.

Ground Water

This profile model allows students a window to see into various types of aquifers. We will use dyes to demonstrate how groundwater pollution occurs. Requires: electricity, a table or counter that all the students can see and a place to fill a 5-gallon bucket.

Recommended grade levels: 6th grade.



Drinking Water and Wastewater Treatment Enviroscope

This model demonstrates the processes that water travels through as it's cleaned for drinking, used in houses and sent to the wastewater treatment plant. Requires: a table that all the students can gather around, about 5 minutes between classes to reset the model.

Recommended grade levels: 2nd, 3rd and 7th grades, and Environmental Science.

Fred the Fish

Young students will go on a trip down the river with Fred and see what happens to his water as he passed through various landscapes. Students will learn about different causes of water pollution and also what can be done to keep water clean. Requires: a place where the entire class can sit and see a fish tank.

Recommended grade levels: Pre-K, Kindergarten, and 1st grade.

Incredible Journey

We will explore the complexity of the water cycle and move away from the simple circle model by learning about the different pathways water follows. Requires: a fairly open classroom, or a gym or multi-purpose room where we can put up 9 stations, students will need pencils and the ability to read easy words. Accommodations can be made for younger students.

Recommended grade levels: 1st, 2nd, and 3rd grade.

Nonpoint Source Pollution

Enviroscope

This model demonstrates nonpoint source pollution and its impact on rivers and lakes. Students will learn the major causes of water pollution and discuss practices for preventing NPS pollution. Requires: a table that all the students can gather around.

Recommended grade levels: 3rd, 4th and 7th grades and Environmental Science.

Streamulator

A table model helps students to understand some of the concepts involving moving water. The model can demonstrate stream formation, bank erosion, velocity, flow rates and urbanization, among other things. Requires: Electricity, a place to fill a 5-gallon bucket and a space where all the students can gather around the model (no wood gym floors).

Recommended grade levels: 4th, 6th, and 7th grades.

Soil Sleuths

This program can be done indoors or outdoors depending on weather and preference. Students will have a hands-on experience with different soil types while exploring soil particles, profiles and soil history in the United States. This program requires: permission to take the class outside (if desired) and a tolerance for muddy hands!

Recommended grade levels: 3rd and 6th grades.

Web of Life

Younger students will learn to separate real animals and plants from imaginary ones, older students will also identify which are native to Ohio. We will then use an activity to explore how the native animals and plants are interdependent. Requires: a space where the entire class can comfortably sit in a circle.

Recommended grade levels: Kindergarten, 1st, 2nd, 3rd and 5th

Smart Device Programs

Do you have a class set of iPads or tablets? Or do many of your students have smart phones? If so, Lake SWCD is developing programming which utilizes these smart devices. Proposed program topics include, mapping, watersheds, and soil science.

If you would like to help us test a smart device program please contact Natalie.